

## Message Text

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ORIGIN PM-05

INFO OCT-01 EUR-12 ISO-00 COME-00 ACDA-07 CIAE-00  
INR-07 L-03 NSAE-00 NASA-01 NSC-05 ERDA-05 SS-15  
OES-07 /068 R

DRAFTED BY OASD/ISA/FMRA:JWOODS;PM/ISO:CCORDER:DME  
APPROVED BY PM/ISO:JWKIMBALL  
EUR/RPM:MR. CCLEMENT  
OES/APT:MR. JDARDIS

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-----075531 260555Z /21

R 260009Z JUL 77  
FM SECSTATE WASHDC  
TO AMEMBASSY OTTAWA  
INFO OASD WASHDC/ISA/FMRA  
HQUSAF WASHDC/XOXXI  
HQAFC ANDREWS AFB MD/FA  
HQAFL HANSCOM AFB MA

C O N F I D E N T I A L STATE 174009

E.O. 11652: ADS-DECLASSIFIED UPON COMPLETION OF NEGOTIATIONS

TAGS: MILI, CA, US

SUBJECT: EXTENSION OF OPERATING RIGHTS - PROJECT 7663

REF: OTTAWA 668, 19 FEB 76

1. BY EXCHANGE OF NOTES REPORTED REFTEL GOC APPROVED THE  
EXTENSION OF OPERATING RIGHTS FOR PROJECT 7663 RELATING TO  
IONOSPHERIC INHOMOGENEITIES THROUGH 31 DECEMBER 1977.

2. THE AIR FORCE GEOPHYSICS LABORATORY, FORMERLY THE AIR  
FORCE CAMBRIDGE RESEARCH LABORATORY (AFCRL) PLANS TO  
CONTINUE PROJECT 7663 TO GAIN BETTER UNDERSTANDING OF THE  
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DYNAMIC PROCESSES OF THE IONOSPHERE AND ITS INTERACTIONS  
WITH THE MAGNETOSPHERE. PROPER UNDERSTANDING OF THESE  
PROCESSES AND INTERACTIONS WILL MAKE POSSIBLE THE  
PREDICTION, MONITORING AND MODELING OF A CRITICAL ENVIRON-  
MENTAL REGION FOR A NUMBER OF AIR FORCE SYSTEMS. THE  
IDENTIFICATION OF SUBSTORM PRECURSORS, BASIC TYPES OF  
SUBSTORMS, IONOSPHERIC F-LAYER THROUGH MODELING, DEFINITION

OF LARGE SCALE IONOSPHERIC GRADIENTS, THE MORPHOLOGY AND DYNAMICS OF THE AURORAL OVAL AND POLAR CAP AURORA ARE THE

MAJOR AREAS OF STUDIES AND EXPERIMENTS UNDER THIS PROJECT. THE STUDIES ARE CARRIED OUT THROUGH DATA OBTAINED FROM THE

AIRBORNE IONOSPHERIC OBSERVATORY (AIO) AND THE GOOSE BAY IONOSPHERIC OBSERVATORY (GBIO).

2. THE CBIO IS A RESEARCH IONOSONDE STATION OPERATED UNDER CONTRACT BY THE CANADIAN MARCONI CORPORATION. OPERATION OF THE STATION IS AUTHORIZED BY THE U.S.-CANADA AGREEMENT OF NOVEMBER 10, 1976, REGARDING USAF USE OF FACILITIES AT GOOSE BAY (T.I.A.S. 8454), AND IMPLEMENTING ARRANGEMENTS CONCLUDED THEREUNDER. THE STATION IS OPERATED ON A REGULAR SCHEDULE OF 7 DAYS A WEEK BY SIX CANADIAN MARCONI EMPLOYEES. RADIO FREQUENCIES REQUIRED BY THE GBIO HAVE BEEN APPLIED FOR.

3. THE AIO IS A NKC-135 (SN 53131) EQUIPPED WITH A GRANGER SOUNDER WITH DIGISONDE EXCITOR, 4-LINE SCANNING PHOTOMETER, VISIBLE AND INFRARED SPECTROMETERS, LORAN A, LF/HF/VHF RECEIVERS, 16 AND 35MM ALL SKY CAMERAS, AND RELATED TIMING AND RECORDING EQUIPMENT. THE AIRCREW WILL CONSIST OF 10 U.S. MILITARY WHILE THE SCIENTIFIC CREW WILL CONSIST OF 3 TO 8 DOD CIVILIAN EMPLOYEES AND 1 TO 4 U.S. CONFIDENTIAL

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MILITARY. ALL PERSONNEL ON THE FLIGHTS WILL BE U.S. CITIZENS.

4. THE PROJECT AND DATA OBTAINED ARE UNCLASSIFIED. THE DATA IS RELEASABLE TO GOC IN ACCORDANCE WITH PREVIOUS AGREEMENT OR TO OTHER CANADIAN AGENCIES UPON REQUEST. THE RESEARCH SHOULD BE OF INTEREST TO ALL CANADIAN AGENCIES CONCERNED WITH POLAR IONOSPHERIC COMMUNICATIONS PROBLEMS.

5. REQUEST EMBASSY SEEK EXTENSION, THROUGH 31 DECEMBER 1980, OF THE GOC APPROVAL FOR OVERFLIGHTS AND OPERATION OF THE TEST AIRCRAFT AS REQUIRED IN SUPPORT OF PROJECT 7663. SPECIFIC INFORMATION CONCERNING EACH FLIGHT WILL BE FURNISHED BY THE OPERATING AGENCY IN ACCORDANCE WITH THE USAF FOREIGN CLEARANCE GUIDE. VANCE

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## Message Attributes

**Automatic Decaptioning:** X  
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**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** RESEARCH, LICENSES, PROGRAMS (PROJECTS)  
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**Disposition Approved on Date:**  
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**Disposition Date:** 22 May 2009  
**Disposition Event:**  
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**Errors:** N/A  
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**Original Handling Restrictions:** n/a  
**Original Previous Classification:** n/a  
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**TAGS:** MILI, CA, US  
**To:** OTTAWA  
**Type:** TE  
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**Review Markings:**  
Margaret P. Grafeld  
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22 May 2009  
**Markings:** Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 22 May 2009